

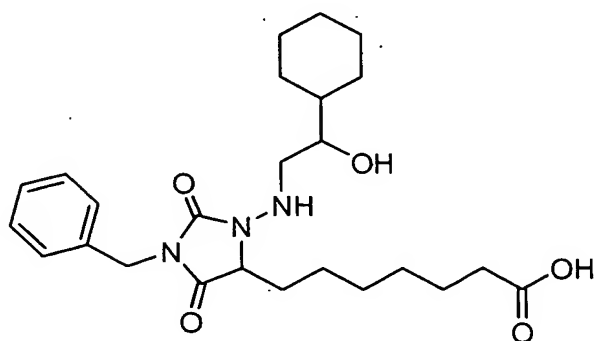
CLAIMS

1. A pharmaceutical composition comprising an effective amount of a prostaglandin D₂ related substance
5 for the regulation of food intake.

2. A pharmaceutical composition comprising an effective amount of prostaglandin D₂ or a prostaglandin D₂ agonist for the stimulation of food intake.

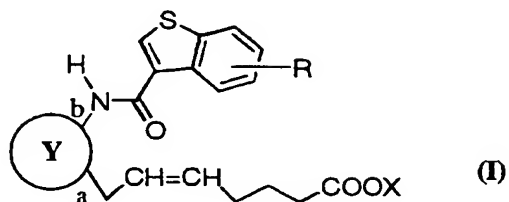
3. A pharmaceutical composition comprising an effective amount of a prostaglandin D₂ antagonist for the inhibition of food intake.

4. The pharmaceutical composition according to Claim 3 wherein said prostaglandin D₂ antagonist is a compound of the formula:

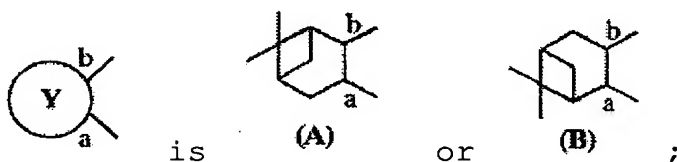


or a pharmaceutically acceptable salt thereof, or a solvate thereof.

5. The pharmaceutical composition according to Claim 3 wherein said prostaglandin D₂ antagonist is a compound of the formula (I):



wherein



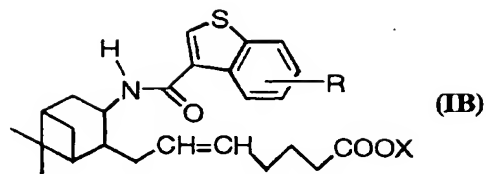
R is hydrogen, alkyl, alkoxy, halogen, hydroxy, acyloxy or optionally substituted arylsulfonyloxy;

10 X is hydrogen or alkyl; and

the double bond on the alpha-chain has E configuration or Z configuration or a pharmaceutically acceptable salt thereof, or a solvate thereof.

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6. The pharmaceutical composition according to Claim 5 wherein said prostaglandin D₂ antagonist is a compound of the formula (IB):

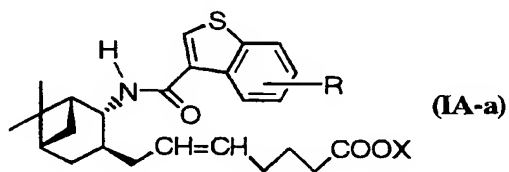


wherein

R and X are as defined above; and

the double bond on the alpha-chain has E configuration
 5 or Z configuration
 or a pharmaceutically acceptable salt thereof, or a solvate thereof.

7. The pharmaceutical composition according to Claim
 10 5 wherein said prostaglandin D₂ antagonist is a compound of the formula (IA-a):



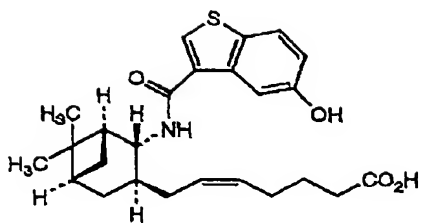
wherein

R and X are as defined above; and

15 the double bond on the alpha-chain has E configuration
 or Z configuration
 or a pharmaceutically acceptable salt thereof, or a solvate thereof.

20 8. The pharmaceutical composition according to Claim
 7 wherein said prostaglandin D₂ antagonist is a compound of

the formula (IA-a1):



(IA-a1)

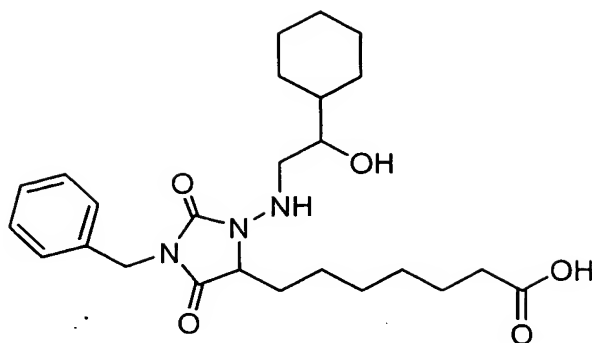
or a pharmaceutically acceptable salt thereof, or a solvate thereof.

9. A method for regulating food intake in a mammal including human, comprising administering to said mammal an effective amount of prostaglandin D₂ related substance.

10. A method for stimulating food intake in a mammal including human, comprising administering to said mammal an effective amount of prostaglandin D₂ or a prostaglandin D₂ agonist.

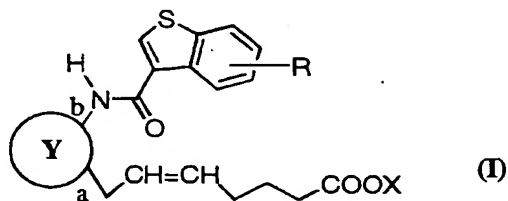
11. A method for inhibiting food intake in a mammal including human, comprising administering to said mammal an effective amount of a prostaglandin D₂ antagonist.

12. The method according to Claim 11 wherein said prostaglandin D₂ antagonist is a compound of the formula:

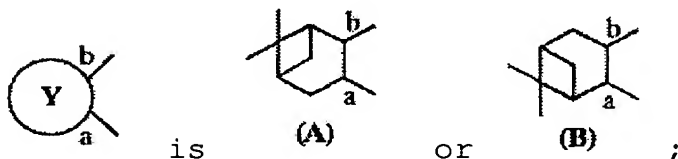


or a pharmaceutically acceptable salt thereof, or a solvate thereof.

- 5 13. The method according to Claim 11 wherein said prostaglandin D₂ antagonist is a compound of the formula (I):



wherein



R is hydrogen, alkyl, alkoxy, halogen, hydroxy, acyloxy or optionally substituted arylsulfonyloxy;

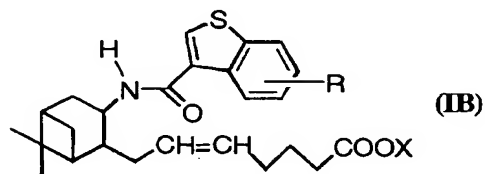
X is hydrogen or alkyl; and

the double bond on the alpha-chain has E configuration

15 or Z configuration

or a pharmaceutically acceptable salt thereof, or a solvate thereof.

14. The method according to Claim 13 wherein said
5 prostaglandin D₂ antagonist is a compound of the formula
(IB):

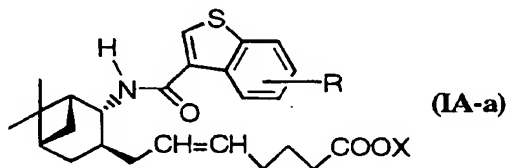


wherein

R and X are as defined above; and

10 the double bond on the alpha-chain has E configuration
or Z configuration
or a pharmaceutically acceptable salt thereof, or a solvate
thereof.

15 15. The method according to Claim 13 wherein said
prostaglandin D₂ antagonist is a compound of the formula
(IA-a):



wherein

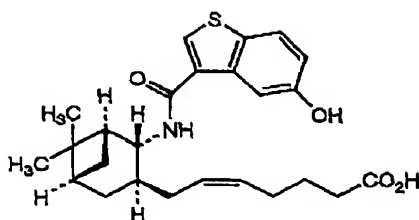
20 R and X are as defined above; and

the double bond on the alpha-chain has E configuration

or Z configuration

or a pharmaceutically acceptable salt thereof, or a solvate thereof.

- 5 16. The method according to Claim 15 wherein said prostaglandin D₂ antagonist is a compound of the formula (IA-a1):



(IA-a1)

- 10 or a pharmaceutically acceptable salt thereof, or a solvate thereof.

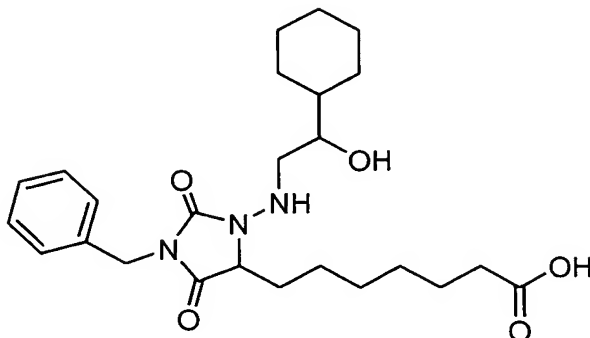
- 15 17. Use of prostaglandin D₂ related substance for the manufacturing of a medicament for the regulation of food intake.

- 20 18. Use of prostaglandin D₂ or a prostaglandin D₂ agonist for the manufacturing of a medicament for the stimulation of food intake.

19. Use of prostaglandin D₂ antagonist for the manufacturing of a medicament for the inhibition of food

intake.

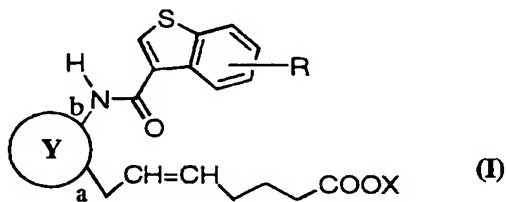
20. The use according to claim 19, wherein said prostaglandin D₂ antagonist is a compound of the formula:



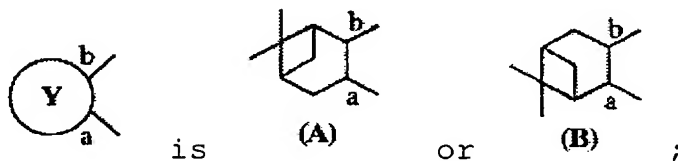
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or a pharmaceutically acceptable salt thereof, or a solvate thereof.

21. The use according to Claim 19 wherein said
10 prostaglandin D₂ antagonist is a compound of the formula
(I):



wherein



is

or

;

15

R is hydrogen, alkyl, alkoxy, halogen, hydroxy,

acyloxy or optionally substituted arylsulfonyloxy;

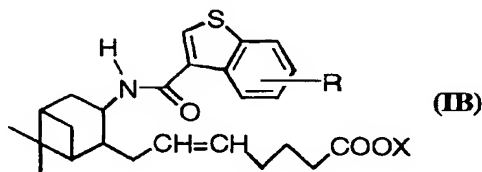
X is hydrogen or alkyl; and

the double bond on the alpha-chain has E configuration
or Z configuration

5 or a pharmaceutically acceptable salt thereof, or a solvate thereof.

22. The use according to Claim 21 wherein said
prostaglandin D₂ antagonist is a compound of the formula

10 (IB):

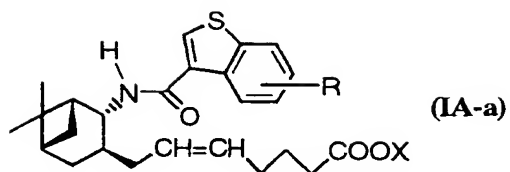


wherein

R and X are as defined above; and

the double bond on the alpha-chain has E configuration
15 or Z configuration
or a pharmaceutically acceptable salt thereof, or a solvate thereof.

23. The use according to Claim 21 wherein said
20 prostaglandin D₂ antagonist is a compound of the formula
(IA-a):

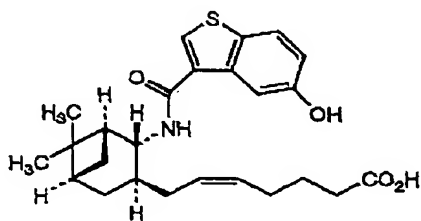


wherein

R and X are as defined above;

the double bond on the alpha-chain has E configuration
 5 or Z configuration
 or a pharmaceutically acceptable salt thereof, or a solvate thereof.

24. The use according to Claim 23 wherein said
 10 prostaglandin D₂ antagonist is a compound of the formula
 (IA-a1):



(IA-a1)

or a pharmaceutically acceptable salt thereof, or a solvate
 15 thereof.